

LAB 3 CLEANROOM GOWNING REQUIREMENTS

General

Annual “Lab 3 cleanroom training” by Russ Rucinski or Jean Wilson is required for entry into the cleanrooms.

Daily bath/shower, shave, brushing of teeth and hair prior to arrival at work. Wear clean freshly laundered clothes.

No smoking for 30 minutes prior to entry.

No make-up, hair gel, body lotions, etc. (for class 10 & 100 areas)

Plan your work. Use restroom before entering.

Procedure Before entry into gowning area:

1. Hang up and place coats and other non-essentials on coat rack or shelves.
2. Inspect your shoes and clothes for dirt or contamination. If necessary, clean your shoes on the motorized shoe cleaner. Push the handle to turn it on.
3. Wash and dry hands at sink in hallway.
4. **Inspect and clean** (if necessary) any material that you plan to bring into the cleanroom. Clean the wheels on any wheeled objects by rolling on sticky mat.
5. **Step on sticky mat** during entry into gowning area. Key in code and enter gowning room.

Cleanroom Gowning room procedure:

Entering

1. Put on a new **HAIR COVER** - Assure all hair is entrained under bouffant. Hair net goes over the ears. (This will prevent stray hairs from being lost into the room.)
2. Put on new **BEARD/FACIAL HAIR COVER** if you have facial hair.
3. Put on non-powdered **GLOVES**. (Your skin, especially hands shed particles.)
4. Put on new **BOOTIES** or dedicated cleanroom shoes – avoid walking near the dirtier entrance area of the room.
5. Put on a clean **LAB COAT** or COVERALLS * - Try not to let garment touch the dirty floor. Button/zip all the way up. Use coveralls if you are wearing shorts or skirt so that no skin is exposed.
6. Enter cleanrooms A or B.

* Lab coats may re-used up to four or five times if in good condition. However, use new items if you plan to enter the ISO class 4 (class 10) cleanroom.

Exiting

1. Walk on exterior door side of bench only when exiting.
2. If **Lab Coat** or Coveralls are in clean condition, they may be hung on the “**used clean lab coat**” hooks. Do not fold them or put in bins. If the Lab coat or Coveralls are dirty, worn or torn, wear it out of the gowning room and dispose of outside.
4. **Leave** the gowning room **gowned** (with hair cover, gloves, and booties on). Dispose of all items outside the gowning room. (Total cost is only \$2.80.)

Gowning procedure for ISO class 4 (class 10) cleanroom

Entering ISO class 5 (class 100) gowning room

1. **Stay gowned.** Additional items go over your existing attire.
2. All materials being brought in should be clean & non-shedding.
3. Stay on the blue mat until additional gowning attire is completed.
4. Put on a **second pair of gloves** over your existing gloves.
5. Put on **sleeve covers** to seal over gloves and existing lab coat. No skin should show between the sleeve and glove.
6. Put on a **facemask** (outside pleats downward) over any existing beard cover.
7. Put on a **hood** over your existing hair cover.
8. Put on a **new coverall over your existing lab coat** or coverall. Try not to allow garment to touch the floor. The hood flaps go inside of the coverall collar.
9. Put on a **second pair shoe covers** over your existing booties, stepping off the blue entry mat after putting them on.
10. Put on clear **safety glasses**. This should cover essentially all exposed skin on the face.

Exiting

1. Place **safety glasses back in bin**.
2. Gently used clean outer coveralls and hood may be used a second or third time. Hang on **“used coverall and hood”** hooks. If they are dirty, leave with it on.
3. **Leave gowned** with all other attire (gloves, booties, sleeve covers, facemask on).

Notes:

- a.) At two hours, add a second face mask over the existing face mask. (The first face mask will be full of particles).
- b.) At four hours, completely exit the inner cleanrooms with all cleanroom attire in place. (Cleanroom attire acts as a filter and the inside of the filter will be full of particles at four hours time.)

CLEANROOM GUIDELINES (to keep the cleanrooms clean!)

Follow all gowning procedures.

Only persons that have been thru Lab 3 Cleanroom training by Russ Rucinski or Jean Wilson are allowed in the cleanrooms.

Do not bring particle generating material into the cleanrooms. Restricted items include: Food, drink, tobacco, powdered cosmetics, cardboard, foam, powder of any type.

Pre-clean all objects before taking them into the gowning area. Wipe down wheels on any wheeled equipment and run the wheels across the tacky mat before taking them into the gowning room.

Pre-clean all objects before taking them into the gowning room of the innermost cleanroom. Wipes and alcohol are available. Wipe down wheels on any wheeled equipment and run the wheels across the blue mat before taking them into the ISO class 4 (class 10) room.

Do not generate particulates in the cleanroom by sanding filing, drilling, blowing dust etcetera.

All human body motion causes much contamination. Minimize the need for repetitive motions and walking back and forth.

Sneezing, coughing, and even talking release particles. Do not work in the cleanroom if you suffer from sneezing and coughing.

Minimize the number of people in the cleanrooms. There is a two person limit in the inner cleanrooms. Only go into the cleanroom if you have to. People are the biggest source of contamination to a cleanroom.

There is a four hour time limit for working in the ISO class 4 (class 10) cleanroom. Fresh, new attire is required after four hours.

Cleanroom attire costs money, but we only re-use Lab Coats, Coveralls and hoods. And we only re-use them four or five times if they are in good clean condition. Hang gently used attire. Do not return to the bins.

Shoe cover/bootie soles will be the dirtiest surface on your cleanroom attire. Be especially careful not to touch anything but the floor with the bottom of your booties. Wear them out of all cleanrooms and throw them away. You will be making the cleanrooms cleaner by tracking the dirt out.

Representative costs for attire:

Purple nitrile outer cleanroom Gloves – 33 cents per pair, throw away
Hair Cover/bouffant cap – 5 cents, throw away
Facial hair/beard cover - 3 cents per pair, throw away

Tyvek Lab Coat - \$ 4.00 each, throw away if dirty, or after a few uses.
Tyvek Coveralls - \$ 7.00 each, throw away if dirty or after a few uses.
Hoods - \$ 1.15 each, throw away at end of day

Booties - \$ 2.35 per pair, will get dirty, throw away.

Gloves for class 100/10 cleanroom - \$1.20 each, throw away
Face Masks for class 100/10 cleanroom – 20 cents, throw away

Cleanroom classifications:

Cleanroom A – ISO class 7, US class 10,000
Cleanroom B – ISO class 7, US class 10,000
Cleanroom B Inner gowning room – ISO class 5, US class 100
Cleanroom B Inner clean room – ISO class 4, US class 10